KENWOOD

Listen to the Future

NEXEDGE™

NX-200/300

NEXEDGE™ VHF/UHF Digital & FM Portable Radios

NXDN® FleetSync® by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- KMC-38GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input[1]
- Transparent Data Mode[1]
- Intrinsically Safe Option
- VGS-1 Voice Guide/ Voice & GPS Data Storage Option

DIGITAL – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the- Air Alias
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging[1]
- Remote Stun/Kill[1]
- Remote Check[1]
- Short & Long Data Messages[1]
- GPS Location with Voice[1]
- NXDN® Scrambler Included (Conventional: per CH)

DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode[2]
- Message Trunked Mode[2]
- Call Queuing with Priority[2]
- Call Queue Pre-emption[2]
- Late Entry (UID & GID)[2]
- 4 Priority Monitor ID's[2]
- Remote Group Add[1]
- Failsoft Mode
- Multi-Site IP Network Compatible

SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging[1]
- Emergency Status
- Caller ID Display
- Short Text Messages[1]
- Power On/Off Status Messages[1]
- Send/Display GPS (KMC-38GPS)[1]
- PTT ID & Emergency GPS Reporting[1]
- Status Message Block GPS Reporting[1]

Options

- **KNB-47L** Li-Ion Battery (1950mAh)
- **KNB-48L** Li-Ion Battery (2550mAh)

KNB-48L

- **KNB-50NC** Ni-MH Battery (2000mAh) Intrinsically Safe
- **KSC-32** Tri-Chemistry Rapid Rate Charger

- **KSC-326** Rapid Rate Six Unit Charger for Ni-Cd/Ni-MH/Li-ion

- **KMC-41M** MIL-STD & IP 54/55 Speaker Microphone

- **KMC-38GPS** GPS Speaker Microphone

- **KHS-11** Heavy Duty Earphone

- **KEP-1** Heavy Duty Earphone

- **KRA-22/23** VHF/UHF Helical Antenna

- **KRA-26/27** VHF/UHF Whip Antenna

- **KRA-16/17** VHF/UHF Stubby Antenna

- **KRA-25** VHF High Gain Antenna

- **KRA-28** VHF Broad Band Antenna

- **VGS-1** Voice Guide & Storage Unit

- **KBH-11** Belt Clip (2.5")

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Main Specifications

		NX-200	NX-300
GENERAL			
Frequency Range	Type 1	136-174 MHz	450-520 MHz
	Type 2		400-470 MHz
Number of Channels		512	
Zones		128	
Max. Channels per Zone		250	
Channel Spacing	**Analog**	12.5 / 15 / 25 / 30 kHz	12.5 / 25 kHz
	Digital	6.25 / 12.5 kHz	6.25 / 12.5 kHz
Operating Voltage		7.5V DC ± 20%	
Battery Life (with KNB-48L)	**5-5-90**	Approx. 14.5 hours	
	10-10-80	Approx. 9.0 hours	
Operating Temperature Range		-22˚ F to +140˚ F (-30˚ C to +60˚ C)	
Frequency Stability		± 2.0 ppm	± 1.0 ppm
Antenna Impedance		50 Ω	
Dimensions (W x H x D) Projections not included			
	Radio only	2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm)	
	with KNB-47L	2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm)	
	with KNB-48L	2.28 x 5.02 x 1.91 in (58 x 127.5 x 48.5 mm)	
Weight (net)	**Radio only**	8.82 oz (250 g)	
	with KNB-47L	13.23 oz (375 g)	
	with KNB-48L	14.29 oz (405 g)	
FCC ID	Type 1	ALH378400	ALH378500
	Type 2		ALH378501
IC Certification	Type 1	282D-378400	282D-378500
	Type 2		282D-378501

		NX-200	NX-300
RECEIVER			
Sensitivity	**Digital @ 6.25kHz (3% BER)**	0.20 µV	
	Digital @ 12.5kHz (3% BER)	0.25 µV	
	Analog (12 dB SINAD)	0.25 µV	
Selectivity	**Analog @ 25 kHz**	72 dB	
	Analog @ 12.5 kHz	65 dB	
Intermodulation Distortion	**Analog**	70 dB (±50,100 kHz)	
Spurious Response	**Analog**	70 dB	
Audio Distortion		Less than 3%	
Audio Output		500 mW / 8 Ω	
TRANSMITTER			
RF Power Output		5 W / 1 W	
Spurious Response		70 dB	
FM Hum & Noise	**Analog @ 25 kHz**	45 dB	
	Analog @ 12.5 kHz	40 dB	
Audio Distortion		Less than 3%	
Modulation		16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analog measurements made per TIA/EIA 603 and specifications shown are typical.
Kenwood reserves the right to change specifications without prior notice or obligation.

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LTR® is a registered trademark of Transcrypt International.
AMBE+2™ is a trademark of Digital Voice Systems Inc.
Windows® is a registered trademark of Microsoft Corporation.
NXDN® is a trademark of Kenwood Corporation and Icom Inc.
NEXEDGE™ is a trademark of Kenwood Corporation.

Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

footnotes from Front:
[1] Requires NX subscriber unit PC Serial Interface compatible software application (e.g Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).
[2] These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

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JQA-QMA1205 091-A
ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

ADS#11309 Printed in USA